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What is Claimed is:

1. An electrically conducting carbon composite comprising a reducible organo-metallic complex dispersed or dissolved in a binder.
- 5 2. The electrically conducting carbon composite of claim 1 wherein the reducible organo-metallic complex comprises zinc, nickel, copper, silver, molybdenum, platinum or palladium.
- 10 3. The electrically conducting carbon composite of claim 1 wherein the reducible organo-metallic complex comprises molybdenum.
4. A method for producing an electrically conducting carbon composite comprising dispersing or dissolving a reducible organo-metallic complex in a binder and metallizing exterior surfaces of the binder.
- 15 5. The method of claim 4 wherein the reducible organo-metallic complex comprises zinc, nickel, copper, silver, molybdenum, platinum or palladium.
- 20 6. The method of claim 4 wherein the reducible organo-metallic complex comprises molybdenum.
7. A fuel cell separator comprising the carbon composite of claim 1.